

II. Amendments to the Claims

This listing and version of the claims replaces all prior versions and listings of the claims.

1. (currently amended) A batt insulation product comprising:

first and second insulation layers coupled together to form a batt, each insulation layer containing randomly oriented fibers bonded together by a binder, each insulation layer having first and second major surfaces and a pair of side portions; and

at least one prefabricated flexible reinforcing non-woven layer comprising randomly oriented glass fibers disposed between and ~~bonded directly to a major surface of each of said insulation layers~~ and extending along a length of said batt, said at least one reinforcing layer being directly bonded to a respective major surface of each of said insulation layers and forming a bonding located between the respective major surfaces of said insulation layers together along said respective major surfaces, wherein the thickness of each of said insulation layers is substantially greater than the thickness of said reinforcing layer.

2. (canceled)

3. (previously presented) The insulation product of claim 1, wherein said batt comprises a plurality of said flexible reinforcing non-woven layers disposed between said first and second insulation layers and extending along the length of said batt.

4. (previously presented) The insulation product of claim 3, wherein said plurality of reinforcing non-woven layers comprises at least two reinforcing layers disposed substantially parallel to said major surfaces and each other.

5. (previously presented) The insulation product of claim 4, further comprising a third insulation layer containing randomly oriented fibers bonded together by a binder, said third insulation layer being separated from said first and/or second insulation layer by at least one of said plurality of reinforcing non-woven layers.

6. (previously presented) The insulation product of claim 4, wherein said at least two reinforcing non-woven layers are coupled together along respective faces, whereby said insulation product is separable at an interface of said at least two reinforcing non-woven layers to form at least two insulation products.

7. (canceled)

8. (previously presented) The insulation product of claim 1, wherein said insulation batt comprises three stacked insulation layers each separated by at least one prefabricated flexible reinforcing non-woven layer comprising glass fibers.

9. (original) The insulation product of claim 8, wherein each of said insulation layers has an insulated effectiveness (R-value) between about R-2 to R-38.

10-11. (canceled)

12. (previously presented) The insulation product of claim 1, wherein said batt is heated to cure said binder at a temperature between about 300-600°F; and

wherein said reinforcing layer comprises randomly oriented fibers having a melting temperature above about said curing temperature, said reinforcing non-woven layer being bonded to said insulation layers at least in part by said binder.

13-14. (canceled)

15. (original) The insulation product of claim 1, further comprising a vapor retarder facing layer disposed on at least one of said major surfaces.

16. (original) The insulation product of claim 15, wherein said vapor retarder facing layer comprises a Kraft paper coated with a bituminous material or a polymeric facing coated with an adhesive.

17-35. (canceled)

36. (previously presented) The insulation product of claim 1, wherein said batt has first and second major surfaces, said insulation product further comprising:

at least one nonwoven facing comprising randomly oriented glass fibers adhered to at least one of said first and second major surfaces of said batt.

37-40. (canceled)

41. (previously presented) The insulation product of claim 36, further comprising a vapor retarder facing layer disposed on at least one of said major surfaces of said batt.

42. (original) The insulation product of claim 41, wherein said vapor retarder facing layer comprises a Kraft paper coated with a bituminous material or a polymeric facing coated with an adhesive.

43. (previously presented) The insulation product of claim 36, wherein said batt has a density of less than about 2.0 pounds per cubic foot.

44. (currently amended) An insulation product comprising:

first and second insulation layers coupled together to form a batt, each insulation layer containing randomly oriented fibers bonded together by a binder, each insulation layer having first and second major surfaces and a pair of side portions; and

a plurality of flexible reinforcing glass nonwoven layers disposed between said first and second insulation layers and extending along a length of said batt, said reinforcing layers disposed substantially parallel to said major surfaces and each other, wherein said at least two reinforcing layers are directly coupled together between said insulation layers along respective faces, whereby said insulation product is separable at an interface of said reinforcing layers to form at least two insulation products.

45. (previously presented) The insulation product of claim 44, wherein said insulation product is separable by hand.

46. (previously presented) The insulation product of claim 44, wherein each of said flexible reinforcing layers has a thickness between about .0059-.0066 inches.

47. (previously presented) The insulation product of claim 44, wherein said flexible reinforcing layers are bonded to said insulation layers at least in part with said binder.

48. (currently amended) The insulation product of claim 47, wherein said flexible reinforcing layers are bonded together ~~at said interface~~ between said insulation layers by said binder, said bond ~~at said interface~~ between said reinforcing layers being weaker than a bond between said flexible reinforcing glass layers and said insulation layers.

49. (currently amended) A batt insulation product comprising:

first and second low density insulation layers coupled together to form a batt, each insulation layer containing randomly oriented glass fibers bonded together with a binder, each insulation layer having first and second major surfaces and a pair of side portions; and

a prefabricated flexible reinforcing non-woven tissue layer comprising bonded glass fibers disposed between said insulation layers and extending along a length of said batt, said tissue layer having a first face being bonded to a major surface of said first insulation layer ~~surfaces of said each of said insulation layers~~ at least in part with said binder and a second face bonded to a major surface of said second insulation layer at least in part with said binder, whereby said insulation layers are bonded together along said major surfaces,

wherein the thickness of said insulation layers is substantially thicker than the thickness of said tissue layer, and

wherein said tissue layer has a tensile strength along said length greater than the tensile strengths of said insulation layers.

50. (previously presented) The insulation product of claim 49, wherein the thickness of each of said insulation layers is between about 1.0-14.0 inches and the thickness of said tissue layer is less than about 10 mils.

51. (previously presented) The insulation product of Claim 1, wherein said at least one reinforcing layer is bonded to said insulation layers at least in part with said binder.

52. (new) The insulation product of claim 1, wherein said at least one reinforcing layer is a single reinforcing layer having first and second faces, the first face of said single reinforcing layer being directly bonded to the respective major surface of said first insulation layer and said second face of said single reinforcing layer being directly bonded to the respective major surface of said second insulation layer.

53. (new) The insulation product of claim 52, wherein said single reinforcing layer is bonded to said major surfaces of said insulation layers with said binder.

54. (new) The insulation product of claim 47, wherein said flexible reinforcing layers are bonded together at said interface by said binder.

55. (new) A batt insulation product comprising:

first and second low density insulation layers coupled together to form a batt, each insulation layer containing randomly oriented glass fibers bonded together with a binder, each insulation layer having first and second major surfaces and a pair of side portions; and

a prefabricated flexible reinforcing non-woven tissue layer comprising bonded glass fibers disposed between said insulation layers and extending along a length of said batt, said tissue layer being bonded to major surfaces of both of said insulation layers by said binder, whereby said insulation layers are bonded together along said major surfaces,

wherein the thickness of said insulation layers is substantially thicker than the thickness of said tissue layer.